division: Industrial

Dranch: Electronic Equipment

External Research Project Proposal

Sitia: Cost Analysis and Industrial Engineering Study of the Electronia Component of the Seriet Surface-to-dir Missile System

Problem: Appreciately 3,600 Surface-to-Air educile launching pade have been noted in the Bucoow air defence cystem. A key clament in this greten is the Soviet 3-200 electronic ground control and galdence set. To determine the possible rate of automaion of this eputon to other key Soviet cities a thereagh economic applieds of evaluable information is required. The objective of this proposed greject is to here available details of the Soviet 8-200 system analyzed in an ettempt to: (1) state the physical specifications of one complete systems (2) derive a Soviet design and production pattern; and, (3) utilize this information in a production engineering and ozenazio costing arabysis. This inferestion will then be used by CSR in conjunction with other information to assess the 3-200 program in terms of total forist alestrociae regulrements and the evailable electronic mobilisetion base. This project will require detailed technical analysis, some of withit her been portially encomplished by hir Technical Intelligence Conter. list arms Exploitation Group, and the Diamond Ordnesco Fram Laboratory. It vill also require openialised industrial engineering analysis to specify the types and quantities of material and labor inputs; the meshinery and essenbly output rates. The analysis may be broken down into three distinct phases. The first phase requires determination of the technical specification of the equipment. The second phase will be an industrial engineering study of the production process. The third phase will include the development of cost and price information in th terms (in a form suitable for CEC/I/SE transletice icto Soviet terral.

<u>dustifications</u> The Burface-to-dir missile system using the B-200 equipment is a Soviet air defence weepen destimed for use against high-speed box Many reports concerning this system have been secumilated. These are almost amiliatively technical in nature, although they contain sufficient detail on circuit design, construction methods, and operational philosophy to suggest that exploitation in economic terms would be profitable. When combined with other information in ONR the results of this project will possit a more rigarous accounting them has heretofere been possible of Seviet espabilities in a highly critical field. Openifically the study will permit Can to relate the production of 1-200 systems to other respons systems and to the total inistrial have evallable. The necessary allocations of economic effort to accomposate any given level of 5-300 production may be accoured to aid in defining the impact of this program on other electronics receivements. Parizon production rates to support an embarator of this system to other key coviet cities would also be an important factor in the CHI use of tide study. The project will be occurdenced with the Office of intentilis Intelligence.

Trace and Contractor:

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